

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/GB2007/004779

A. CLASSIFICATION OF SUBJECT MATTER  
INV. A61K38/26 C07K14/435

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
A61K C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, BIOSIS, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE MEDLINE [Online] US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 9 September 2004 (2004-09-09), XP002471184 retrieved from CAA27627 Database accession no. CAA27627 Amino acids 53-89 abstract	1-36
Y	WO 03/022304 A (IMP COLLEGE INNOVATIONS LTD [GB]; BLOOM STEPHEN ROBERT [GB]; GHATEI MO) 20 March 2003 (2003-03-20) Claim 2 Page 21 lines 19-27 Page 3 line 24 - Page 4 line 11 Page 4 line 17 - Page 10 line 19 ----- -/--	1-36

☒ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

### \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

10 March 2008

Date of mailing of the international search report

21/05/2008

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PCT/GB2007/004779

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 2005/035761 A (COMPUGEN LTD [IL]; SHEMESH RONEN [IL]; KLIGER YOSSEF [IL]; NEVILLE LEW) 21 April 2005 (2005-04-21) Claims 2,20,84,85 Page 3 lines 10-18	36
Y	WO 2004/062685 A (IMP COLLEGE INNOVATIONS LTD [GB]; BLOOM STEPHEN ROBERT [GB]; GHATEI MO) 29 July 2004 (2004-07-29) Claims 1-12	1-36
P,X	WO 2007/056362 A (INDIANA UNIVERSITY RES AND TEC [US]; DIMARCHI RICHARD D [US]; SMILEY D) 18 May 2007 (2007-05-18) Claims 1-46 SEQ ID NO 37	1-4, 6-10, 14-36
P,X	WO 2007/100535 A (MERCK & CO INC [US]; ANGELETTI P IST RICHERCHE BIO [IT]; ROY RANABIR S) 7 September 2007 (2007-09-07) Claims 1-12 SEQ ID NO 3	1-4, 6-10, 14-36
E	WO 2007/146038 A (HUMAN GENOME SCIENCES INC [US]; ROSEN CRAIG A [US]; BELL ADAM [US]; LA) 21 December 2007 (2007-12-21) SEQ ID NO 296 Paragraph 0032 Page 12	1-4, 6-10, 14-36

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## Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 28-36  
because they relate to subject matter not required to be searched by this Authority, namely:  
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This international searching authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers allsearchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-36 partially

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-36 (partially)

The protein :

His Ser Gln Gly Thr Phe Thr Ser Asp Tyr ser Lys Tyr Leu Glu  
Glu Glu Leu Val Lys Tyr Phe Leu Glu Trp Leu Met Asn Thr Lys  
Arg Asn Lys Asn Asn Ile Ala

The use of said protein for the treatment of obesity

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Inventions 2-1631: claims 1-36 (partially)

The further 1630 variants and the use of said variants for  
the treatment of obesity

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2007/004779

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03022304	A	20-03-2003	BR 0212374 A	17-08-2004
			CA 2459862 A1	20-03-2003
			CN 1551780 A	01-12-2004
			CN 101057968 A	24-10-2007
			EP 1427437 A1	16-06-2004
			JP 2005511503 T	28-04-2005
			KR 20050026685 A	15-03-2005
			MX PA04002142 A	31-05-2006
			NZ 531609 A	31-08-2006
			PL 367274 A1	21-02-2005
			US 2005070469 A1	31-03-2005
			ZA 200401804 A	12-07-2005
WO 2005035761	A	21-04-2005	NONE	
WO 2004062685	A	29-07-2004	AU 2004204369 A1	29-07-2004
			CA 2512939 A1	29-07-2004
			EP 1581248 A2	05-10-2005
			JP 2006515351 T	25-05-2006
			US 2006189522 A1	24-08-2006
			US 2008064636 A1	13-03-2008
WO 2007056362	A	18-05-2007	NONE	
WO 2007100535	A	07-09-2007	NONE	
WO 2007146038	A	21-12-2007	NONE	